

Title (en)

Synchronizing signal switching system for synchronizing external storage devices.

Title (de)

Synchronisierungssignalvermittlungssystem zum Synchronisieren von externen Speicheranordnungen.

Title (fr)

Système de commutation de signaux de synchronisation pour la synchronisation des dispositifs de stockages externes.

Publication

EP 0404120 A2 19901227 (EN)

Application

EP 90111681 A 19900620

Priority

JP 16204689 A 19890623

Abstract (en)

Disclosed is a synchronizing signal switching system for synchronizing operations of a plurality of disk devices without stopping the system operation even when a currently used synchronizing signal is stopped or deviated from standard. To this end, each disk device comprises a disk unit and a synchronizing signal switching unit (100) for generating a synchronizing signal to be supplied to the disk unit. One of the disk devices is a current master disk device for currently supplying a master synchronizing signal and another one of the disk devices is a next master disk device. The disk devices are connected in a sequence to form a loop (16) through which the master synchronizing signal is transmitted. The synchronizing signal switching unit in each of the disk devices is provided with an inheritance order to become the current master disk device or the next master disk device. When the current master synchronizing signal is deteriorated, the synchronizing signal switching unit having the next inheritance order is switched to supply the synchronizing signal as the current master synchronizing signal to all of the disk devices through the loop.

IPC 1-7

G06F 3/06

IPC 8 full level

G06F 3/06 (2006.01); **G11B 19/28** (2006.01); **G11B 27/00** (2006.01); **G11B 27/10** (2006.01)

CPC (source: EP US)

G11B 19/28 (2013.01 - EP US); **G11B 27/10** (2013.01 - EP US)

Cited by

US5438464A; EP0513741A3; EP0621595A3; EP0522592A1; US5497276A; EP0643389A1; US5491593A; US6134068A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0404120 A2 19901227; **EP 0404120 A3 19920909**; **EP 0404120 B1 19961023**; DE 69028949 D1 19961128; JP 2770986 B2 19980702; JP H0327431 A 19910205; US 5216654 A 19930601

DOCDB simple family (application)

EP 90111681 A 19900620; DE 69028949 T 19900620; JP 16204689 A 19890623; US 54188090 A 19900621